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GRAVITATIONAL WAVE GENERATION UTILIZING  
SUBMICROSCOPIC ENERGIZABLE ELEMENTS

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ABSTRACT OF THE DISCLOSURE

10 A gravitational wave generating device comprising an  
energizing means which act upon energizable elements such as  
molecules, atoms, nuclei or nuclear particles in order to create  
nuclear reactions or collisions, the products of which can move  
in a single preferred direction with an attendant impulse (jerk  
or harmonic oscillation) of an ensemble of target nuclei or other  
energizable elements over a very brief time period. The target  
15 nuclei or energizable elements acting in concert generate a  
gravitational wave. A preferred embodiment involves the use of  
a pulsed particle beam moving at the local gravitational wave  
speed in a target mass, which is comprised of target nuclei, to  
trigger a nuclear reaction and build up a coherent gravitational  
20 wave as the particles of the beam move through the target mass  
and impact target nuclei over very short time spans. An  
information-processing device connected to a computer, controls  
the particle beam's high-frequency, (GHz to THz) pulse rate and  
the number of particles in each bunch comprising the pulse in  
25 order to produce modulated gravitational waves that can carry  
information. A gravitational wave generation device that  
exhibits directivity. A gravitational wave detection device that  
exhibits directivity and can be tuned. The utilization of a  
medium in which the gravitational wave speed is reduced in order  
30 to effect refraction of the gravitational wave.

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